AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
000001	01/13/2012		

6. ISSUED BY CODE GSFC

NASA/Goddard Space Flight Center
Procurement Operations Division
8800 Greenbelt Road
Attn: Jasmine Jett
Code: 210.3/ PH: 301-286-0689
Greenbelt MD 20771

7. ADMINISTERED BY (If other than Item 6) CODE GSFC

NASA/Goddard Space Flight Center
Procurement Operations Division
8800 Greenbelt Road
Attn: Jasmine Jett
Code: 210.3/ PH: 301-286-0689
Greenbelt MD 20771

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

(x) 9A. AMENDMENT OF SOLICITATION NO.
NNG11375927R

X 9B. DATED (SEE ITEM 11)
01/13/2012

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED (SEE ITEM 13)

CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 3 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not; ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to revise the solicitation as described in Responses to Final RFP Questions - Sets 1 and 2.

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Lois E. McDuffee **Lois E. McDuffee** **Contracting Officer**	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		Lois E. McDuffee (Signature of Contracting Officer)	2-6-2012

Accordingly, the solicitation identified in block 9A. is hereby amended as follows:

I. **Cover Letter:** In the first paragraph on page 2 of the Cover Letter delete the acceptance period of "240 days" and substitute "270 days".

II. **SF-33:** Substitute the attached SF-33 for the form provided with the original solicitation. Section 9 has been revised to incorporate the time and date that proposal submissions are due as specified in the Cover Letter.

III. **Section K.1:** Delete paragraphs (a)(1) and (a)(2) in their entirety and substitute the following in lieu thereof:

(a)(1) The North American Industry Classification System (NAICS) code for this acquisition is **541712**.
(a)(2) The small business size standard is **1,000**.

IV. **Section L.15(c)(7):** Add the following sentence to paragraph (b):

"In lieu of providing copies of salary surveys used, offerors may summarize data utilized from the surveys, including the name, date, geography, survey labor categories, survey percentiles, and survey salaries."

V. **Section L.18(a):** Delete the second paragraph in its entirety and substitute the following in lieu thereof:

"A proposed significant subcontractor for this procurement is defined as any proposed subcontractor that is estimated to meet/exceed an average annual cost/fee of $3M. *Note, the definition of significant subcontractor for the past performance evaluation may be different than for* ***the Mission Suitability and cost factor*** *evaluations.* The offeror shall provide the information requested below for any significant subcontractor(s) for those similar efforts within the last 5 years of the RFP release date with a minimum average annual cost/fee incurred of at least 10% of the estimated average annual dollar value of the proposed significant subcontract."

VI. **Section M.3.1 Subfactor B:** Delete paragraph 5 in its entirety and substitute the following in lieu thereof:

"The offeror's plan for staffing, maintaining and augmenting a qualified workforce **including Exhibit 5** will be evaluated based on the ability to meet contract needs in a timely manner. The offeror's ability to provide any necessary support to perform under the resultant contract, respond to critical requirements, and staff new requirements from existing resources and from outside sources will be evaluated for reasonableness and effectiveness. "

VII. **Enclosure A:** Add "Manufacturing Engineer" as an incumbent labor category. An incumbent composite labor rate is not available.

VIII. **Exhibit 14:** In RTO 3 delete the Task Description and substitute the following in lieu thereof:

"Task Description

The contractor shall determine the impact on the GHI Instrument to accommodate the interfaces to the RTB mission subsystems, and the design/assembly/integration of these impacts.

The contractor shall perform the following in support of accommodating GHI:

- Requirements Definition
  - Flight Systems
  - Ground Systems
- Flight Hardware Design
  - Architecture Definition
  - Detailed Electronic Design
  - Field Programmable Gate Array (FPGA) and/or Application Specific Integrated Circuit (ASIC) Design
  - Parts Placement
  - Signal Routing
  - Grounding Scheme
- Electronics Parts Qualification and Screening, Long Lead Items
- High Voltage Power Subsystem
  - Electronic Box Design
  - GSE Design
- Data/Command Interface
  - Accommodation Trade Study
    - Modification vs. Additional Box
- Radiation Testing
  - Displacement damage dose (DDD)
  - Single-event effects (SEE)
  - Total ionizing dose (TID), including enhanced low dose rate sensitivity (ELDRS)
- Electronics Packaging
  - Mechanical Design
  - Mechanical Analysis
  - Thermal Analysis
- Flight and Ground Systems Electronics Fabrication
- Flight and Ground Systems Electronics Assembly
- GHI re-Integration and Test
- Support of Electronics Box Environmental Test
  - Thermal/Vacuum
  - Vibration
  - Electromagnetic Interference/Electromagnetic Compatibility (EMI/EMC)
- **Instrument Calibration and Alignment**
- Mission Assurance and Systems Safety Plan
- Contamination Control Management, Analysis, and Verification "

IX. **Exhibit 15:** Delete Position Description #40, Senior Electrical Power Engineer, in its entirety and substitute the following in lieu thereof:

"**40. Senior Electrical Power Engineer**
Description: The Sr. Electrical Power Engineer shall provide the leadership in conducting ESES research relating to the incorporation of new technology power systems and devices, and new electrochemical materials for aerospace application power generation, regulation, and storage. This includes power system architectures for energy transfer and peak energy tracking, energy conversion devices, electrochemical and mechanical energy storage devices, and new power electronic design techniques. The incumbent shall establish the approach to achieving the defined research objective and manage the research activities to be implemented, conduct analyses of developmental progress, perform trade studies of alternative solutions, provide recommendations for any continued research, and generate periodic documentation/news information releases describing progress. The incumbent participates in implementation-phase power-specific detailed design services tasks and provides design and analysis services to support technology development relating to instrument power systems and instrument power distribution electronic systems.

The Sr. Electrical Power Engineer is responsible for managing and conducting the ESES electrical power research activity, and managing/conducting associated power system technology design, development, and evaluation activities leading to the design/component/system qualification for space flight. The incumbent supports power system black box and spacecraft integration activities, power system anomaly investigations, and program reviews.

The position responsibility includes conducting the position duties without supervision, and supervising and providing technical guidance to lesser-skilled ESES personnel. The incumbent is responsible for the technical, schedule, and cost performance of the assigned tasks.
Education: PhD in Physics, Chemistry, or Electrical Engineering. An M.S. in a related field and two additional years of relevant electrical power experience can substitute for the PhD.
Experience: Fifteen years experience in conducting research and developing electrochemical power generation, storage, and regulation systems, of which ten years is related to aerospace power system applications. Two years of supervisory experience is preferable. The relevant applications include devices for power system architectures for direct energy transfer and tracking peak power, diverse-composition solar cell energy converters, concentrator-type energy generators, diverse energy storage devices such as Li Ion and Li Polymer batteries, fuel cells, flywheel technology power storage devices, dc-dc converters, and microprocessor controlled spacecraft power management and distribution systems."

END AMENDMENT 1